



IMAGING THE FUTURE SINCE 1947

POWERED BY



XE-X

INDUSTRIAL EQUIPMENT FOR
RADIOLOGY AND TOMOGRAPHY



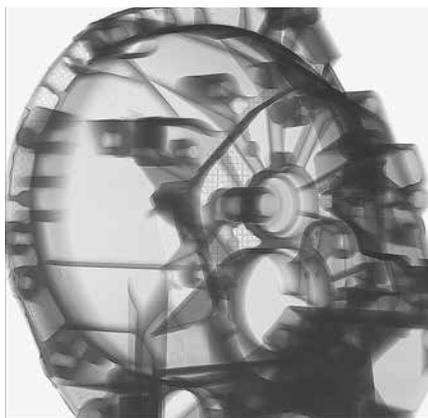


Join us into the future of industrial radiography
and tomography with our new systems
from the collaboration between Gilardoni and Eidosolutions



IMAGING THE FUTURE SINCE 1947

Image acquired in radioscopy



XE-XL

LARGE INSPECTION AREA AND FLEXIBILITY
TO SERVE THE INDUSTRY

THE ROOMIEST, VERSATILE AND MODULAR

THE INNOVATIVE SOLUTION

IN THE FIELD OF X-RAY
INDUSTRIAL TESTING

PENETRATION

up to 160mm Al (or 30mm Fe)

INSPECTABLE VOLUME

up to Ø 1000mm x H 1500mm

LOADABLE WEIGHT

120kg

EQUIPPED WITH

- ▶ Minifocus source
160kV or 225kV
- ▶ Microfocus source
- ▶ Flat Panel up to 16"

FROM MICRO TO MACRO COMPONENT

MODULARITY

Modular design allows for later addition of components and additional functions to the initial configuration. This makes XE-L extremely adaptable and able to grow with the needs of your business.

RELIABILITY

The robust design of the cabinet and its mechanical components together with accurate quality controls and testing during the production phase insure reliability.

MANIPULATION SYSTEM

The 7 axis positioning system uses brushless motors with absolute multi-turn encoders that allow use of the equipment without resetting after shutdown or system recovery.

STANDARD LEAD SHIELDING 225 KV

Lead shielded configuration that ensures a following increase in the X-ray source voltage without replace the equipment.

XE-XL

NEW
EQUIPMENT
FOR RADIOSCOPY
AND TOMOGRAPHY



MAIN FEATURES

- ▶ Flexibility
- ▶ Modularity
- ▶ High image quality
- ▶ Advanced manipulator
- ▶ Easy loading
- ▶ Easily programmable control software with touch screen
- ▶ Standard image processing software on dedicated monitor
- ▶ Low maintenance
- ▶ Operator safety
- ▶ Large inspection area
- ▶ Interconnection with company information systems

HIGH IMAGE QUALITY

Achieved through the use of a digital panel (sensor) for image acquisition. This is paired with sophisticated processing software and proprietary filters.



Unfiltered image

Filtered image

FILTERS

Image processing with filters allows viewing of data not visible on monitors and not perceived by the human eye. This allows automatic enhancement of the information contained in the digital image obtained.

EASY TO USE

Software designed to be simple and intuitive. The analog joysticks allow control of the manual speed of each axis, enabling the operator to perform precise positioning or fast movements as needed.

CUTTING EDGE SOFTWARE

Management software can be easily programmed with a touch screen. Image processing software included on dedicated monitor.

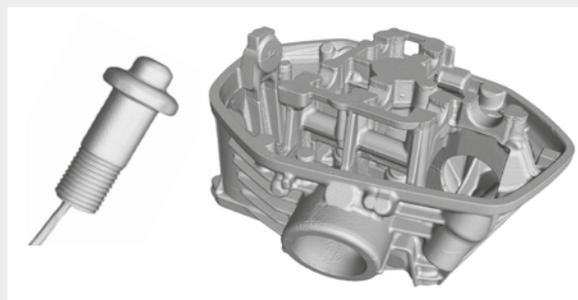
Additional components and functions can be added to the standard configuration.

TOMOGRAPHY

VG Studio software, the most advanced 3D reconstruction and tomographic analysis software available on the market, can be installed upon request.

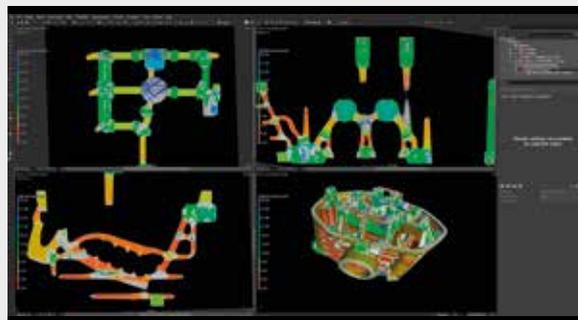
Depending on requirements, packages including different modules are available:

- ▶ Porosity/inclusions analysis
- ▶ Wall thickness analysis
- ▶ Coordinate measurement
- ▶ Actual/nominal comparison



QUICK SCAN

The Quick Scan function produces an initial three-dimensional image in just 20 seconds (using specific sensor models).

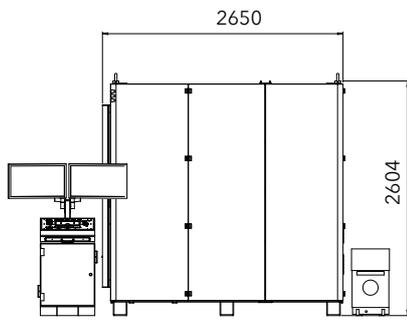


X-WIDE VIEW

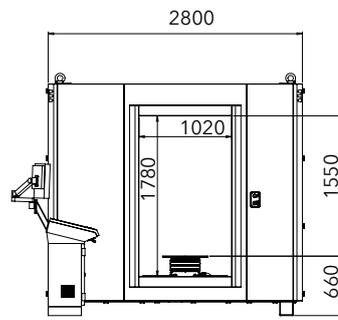
Enlarges the field of view up to 16" even with an 8" sensor.

X-SCATTERING FOCUS

Eliminates diffuse and scattered radiation interference enhancing resolution, homogeneity and contrast in the X-ray image.



Front view

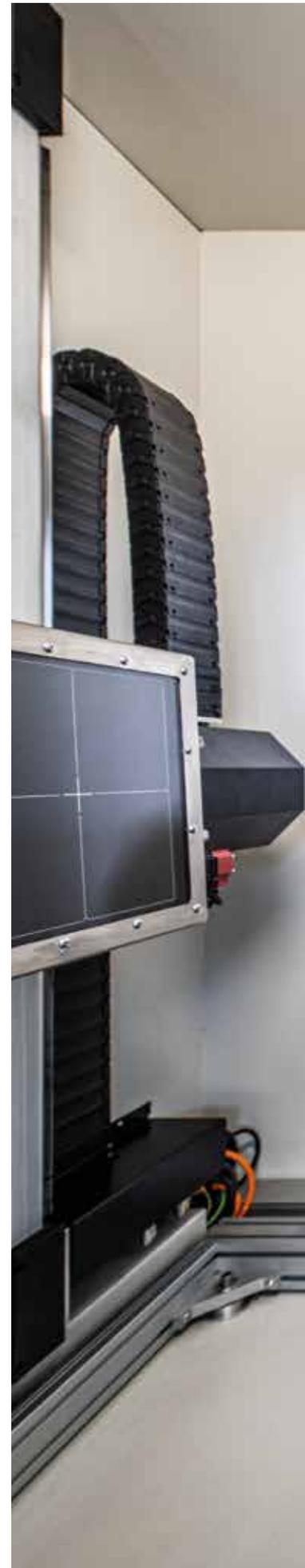


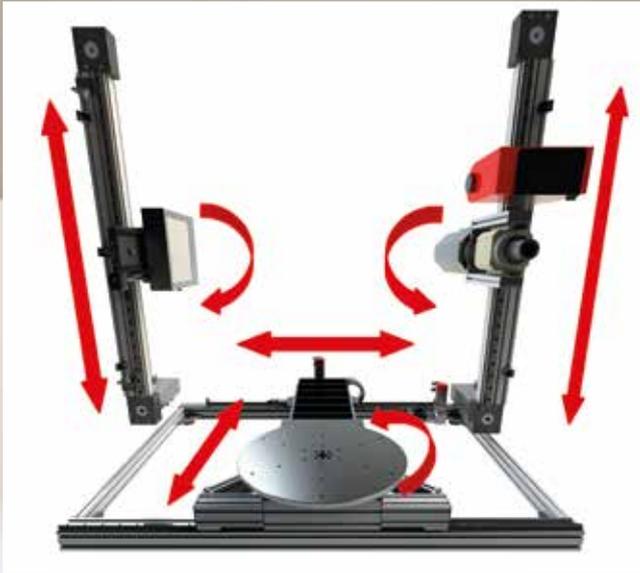
Side view
Dimensions in mm

VERSION	160kV	225kV
SHIELDED CABINET		
Dimensions (W x D x H)	See layout	
Installation area	5000 x 5500mm	
Weight	6500kg	
Number of doors	Two sliding doors	
Loading door size	1020 x 1780mm	
Console	External, adaptable to the layout, adjustable monitor	
MANIPULATOR		
Maximum linear axis speed	12m/min	
Zoom axis	Zoom up to 14x	
Horizontal axis	1000mm (+ 590mm for loading near door)	
Vertical axis	1500mm (reduced stroke for double source minifocus+microfocus)	
Tilting axis	± 30°	
Rotation axis	± 360°	
X-RAYS SYSTEM		
MINIFOCUS		
X-ray source	160kV	225kV
Focal spot *	d= 1,2mm Power 500W	d= 0,4 / D= 1,0mm Power 800/1800W
MICROFOCUS		
X-ray source	150kV	
Focal spot *	From 5µm with power 4W To 50µm with power 75W	
ACQUISITION SYSTEM		
Flat Panel *	Flat Panel 8" - 16" / ADC 16 bit / Pixel 200µm	
INSPECTABLE VOLUME		
Maximum size (Ø x H)	1000 x 1500mm (H reduced in case of double source minifocus+microfocus) (Inspection area can be enlarged upon request)	
Maximum object weight	120kg	
SUPPLY		
Type / Power	400V 50/60Hz 3P+N+PE / 5kVa	

* wide range available as needed

Cabinet inside view with 7 axis manipulation system





APPLICATIONS

For use in multiple sectors

- ▶ AUTOMOTIVE
- ▶ AEROSPACE
- ▶ FOUNDRY
- ▶ PIPING
- ▶ WELDING
- ▶ RUBBER and PLASTIC
- ▶ ELECTRONICS
- ▶ RESEARCH
- ▶ REVERSE ENGINEERING

WHY CHOOSE GILARDONI?



EXPERIENCE AND KNOW HOW

Over 70 years of experience in the X-ray sector. Thousands of X-ray systems installed worldwide.



HIGH QUALITY MATERIALS

Research and development of innovative technical solutions ensuring high performance, low maintenance and long term reliability over time.



INVESTMENT LONGEVITY

Reliability, experience and the opportunity to have our highly specialized technicians perform preventive maintenance insure the durability of Gilardoni systems.



RESEARCH LABORATORIES RECOGNIZED "HIGHLY QUALIFIED"
WITH DECREE D.M. 9.10.1985 - L. 46/82 ART.4 - COMPANY CERTIFIED ISO 9001 ISO 13485



IMAGING THE FUTURE SINCE 1947

GILARDONI S.p.A. a Socio Unico
Via Arturo Gilardoni, 1 - 23826 Mandello del Lario (LC) Italy +39 0341 705.111
cnd@gilardoni.it gx@gilardoni.it www.gilardoni.it